

```

9      18      27      36      45      54
5' GCC CTA CCG TGT GCG CAG AAA GAG GAG GCG CTT GCC TTC AGC TTG TGG GAA ATC

63      72      81      90      99      108
CCG AAG ATG GCC AAA GAC AAC TCA ACT GTT CGT TGC TTC CAG GGC CTG CTG ATT
M   A   K   D   N   S   T   V   R   C   F   Q   G   L   L   I

117     126     135     144     153     162
TTT GGA AAT GTG ATT ATT GGT TGT TGC GGC ATT GCC CTG ACT GCG GAG TGC ATC
F   G   N   V   I   I   G   C   C   G   I   A   L   T   A   E   C   I

171     180     189     198     207     216
TTC TTT GTA TCT GAC CAA CAC AGC CTC TAC CCA CTG CTT GAA GCC ACC GAC AAC
F   F   V   S   D   Q   H   S   L   Y   P   L   L   E   A   T   D   N

225     234     243     252     261     270
GAT GAC ATC TAT GGG GCT GCC TGG ATC GGC ATA TTT GTG GGC ATC TGC CTC TTC
D   D   I   Y   G   A   A   W   I   G   I   F   V   G   I   C   L   F

279     288     297     306     315     324
TGC CTG TCT GTT CTA GGC ATT GTA GGC ATC ATG AAG TCC AGC AGG AAA ATT CTT
C   L   S   V   L   G   I   V   G   I   M   K   S   S   R   K   I   L

333     342     351     360     369     378
CTG GCG TAT TTC ATT CTG ATG ATG TTT ATA GTA TAT GCC TTT GAA GTG GCA TCT TGT
L   A   Y   F   I   L   M   F   I   V   Y   A   F   E   V   A   S   C

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FIGURE 1A

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387	396	405	414	423	432
ATC ACA GCA GCA ACA CAA CGA GAC TTT TTC ACA CCC AAC CTC TTC CTG AAG CAG					
I T A A T Q Q R D F F T P N L F L K Q					
441	450	459	468	477	486
ATG CTA GAG AGG TAC CAA AAC AAC AGC CCT CCA AAC AAT GAT GAC CAG TGG AAA					
M L E R Y Q N N S P P N N D D Q W K					
495	504	513	522	531	540
AAC AAT GGA GTC ACC AAA ACC TGG GAC AGG CTC ATG CTC CAG GAC AAT TGC TGT					
N N G V T K T W D R L M L Q D N C C					
549	558	567	576	585	594
GGC GTA AAT GGT CCA TCA GAC TGG CAA AAA TAC ACA TCT GCC TTC CGG ACT GAG					
G V N G P S D W Q K Y T S A F R T E					
603	612	621	630	639	648
AAT AAT GAT GCT GAC TAT CCC TGG CCT CGT CAA TGC TGT GTT ATG AAC AAT CTT					
N N D A D Y P P W P R Q C C V M N N L					
657	666	675	684	693	702
AAA GAA CCT CTC AAC CTG GAG GCT TGT AAA CTA GGC GTG CCT GGT TTT TAT CAC					
K E P L N L E A C K L G V P G F Y H					
711	720	729	738	747	756
AAT CAG GGC TGC TAT GAA CTG ATC TCT GGT CCA ATG AAC CGA CAC GCC TGG GGG					
N Q G C Y E L I S G P M N R H A W G					

FIGURE 1B

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765	774	783	792	801	810
GTT GCC TGG TTT GGA TTT GCC ATT CTC TGC TGG ACT TTT TGG GTT CTC CTG GGT					
V A W F G F A I L C W T F W V L L G					
819	828	837	846	855	864
ACC ATG TTC TAC TGG AGC AGA ATT GAA TAT TAA GCA TAA AGT GTT GCC ACC ATA					
T M F Y W S R I E Y *					
873	882	891	900	909	918
CCT CCT TCC CCG AGT GAC TCT GGA TTT GGT GCT GGA ACC AGC TCT CTC CTA ATA					
927	936	945	954	963	972
TTC CAC GTT TGT GCC CCA CAC TAA CGT GTG TGT CTT ACA TTG CCA AGT CAG ATG					
981	990	999	1008	1017	1026
GTA CGG ACT TCC TTT AGG ATC TCA GGC TTC TGC AGT TCT CAT GAC TCC TAC TTT					
1035	1044	1053	1062	1071	1080
TCA TCC TAG TCT AGC ATT CTG CAA CAT TTA TAT AGA CTG TTG AAA GGA TTT					
1089	1098	1107	1116	1125	1134
GAA AAA TGC ATA ATA ACT ACT TCC ATC CCT GCT TAT TTT TAA TTT GGG AAA ATA					
1143	1152	1161	1170	1179	1188
AAT ACA TTC GAA GGA AAA ACA AAA AGG GCG GCC CCC GAT TAT TGA GGG GTC					

FIGURE 1C

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1197	1206	1215	1224	1233	1242
CCG AGC CCG AAC TCG TAA CCA TGT AAA ACC CGT TCC CCG GGG TAA AAT TGT AAT					
1251	1260	1269	1278	1287	1296
CCC CCC ACA ATT CCC CAA AAC ATA GGG CCC GGA AGC CTA AAG TTT AAA ACC CTG					
1305	1314	1323			
GGG GGG CCT AAG GAG TTT ACC CAA ACT CCC TTT CT 3'					

FIGURE 1D

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10	19	28	37	46	55
5'TCGA CGC CAC CAT TTT AAA GGG ATT TAC TGC ACG GAC TTC TCC CAA GTT CCT AGG					
64	73	82	91	100	109
CAT TAT CTT CTG GAC CCT ATC CTG CAG AGG TGA AGC GTC CCT TTG GGG ACT CTC					
118	127	136	145	154	163
GCT GGG TGA GAG GGA CAA GAA ACA CCC ACT AGG ACC CAA CCC CGG CAG CCA GCG					
172	181	190	199	208	217
GCT CGA GCA TGC GCT GAG AGT TTG TGC AGC TGG CCC TGG CTG CCG CTG CCT					
226	235	244	253	262	271
CGT CCG GAC TCG GAG AGG ACT TGG GAG GGA CAG CAG CGC TGG GAG GTG GCT TAG					
280	289	298	307	316	325
CAG AGA CTT TCC AGC AAC TGC TGC CCA GGA CTT TTT TTT TTT TTC TTT TTC					
334	343	352	361	370	379
CCA GGA GGC GGC GAC GGC GGC GGC GGC GGC AGA GGA AGA GAA AGA AGC GTC TCC					
388	397	406	415	424	433
AGC TGA AGC CAA TGC AGC CCT CCG GCT CTC CGC GAA GAA GTT CCC TGC CCC GAT					
442	451	460	469	478	487
GAG CCC CCG CCG TGC GTC CCC GAC TAT CCC CAG GCG GGC GTG GGC CAC CGG GCC					

FIGURE 2A

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496	505	514	523	532	541
CAG CGC CGA CGA TCG CTG CCG TTT TGC CCT TGG GAG TAG GAT GTG AAA GGA					
550	559	568	577	586	595
TGG GGC TTC TCC CTT ACG GGG CTC ACA ATG GCC AGA GAA GAT TCC GTG AAG TGT					
			M A R E D S V K C		
604	613	622	631	640	649
CTG CGC TGC CTG CTC TAC TAC GCC CTC AAT CTG CTC TTT TGG TTA ATG TCC ATC AGT					
L R C L L Y A L N L L L F W L M S I S					
658	667	676	685	694	703
GTG TTG GCA GTT TCT GCT TGG ATG AGG GAC TAC CTA AAT AAT GTT CTC ACT TTA					
V L A V S A W M R D Y L N N V L T L					
712	721	730	739	748	757
ACT GCA GAA ACG AGG GTA GAG GAA GCA GTC ATT TTG ACT TAC TTT CCT GTG GTT					
T A E T R V E E A V I L T Y F P V V					
766	775	784	793	802	811
CAT CCG GTC ATG ATT GCT GTT TGC TGT TTC CTT ATC ATC ATT GTG GGG ATG TTA GGA					
H P V M I A V C C F L I I V G M L G					
820	829	838	847	856	865
TAT TGT GGA ACG GTG AAA AGA AAT CTG TTG CTT CTT GCA TGG TAC TTT GGA AGT					
Y C G T V K R N L L L L L L A W Y F G S					

FIGURE 2B

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874	883	892	901	910	919
TTG CTT GTC ATT TTC TGT GTA GAA CTG GCT TGT GGC GTT TGG ACA TAT GAA CAG					
L L V I F C V E L A C G V T Y E Q					
928	937	946	955	964	973
GAA CTT ATG GTT CCA GTA CAA TGG TCA GAT ATG GTC ACT TTG AAA GCC AGG ATG					
E L M V P V Q W S D M V T L K A R M					
982	991	1000	1009	1018	1027
ACA AAT TAT GGA TTA CCT AGA TAT CGG TGG CTT ACT CAT GCT TGG AAT TTT TTT					
T N Y G L P R Y R W L T H A W N F F					
1036	1045	1054	1063	1072	1081
CAG AGA GAG TTT AAG TGC TGT GGA GTA GTA TAT TTC ACT GAC TGG TTG GAA ATG					
Q R E F K C C C G V V Y F T D W L E M					
1090	1099	1108	1117	1126	1135
ACA GAG ATG GAC TGG CCC CCA GAT TCC TGC TGT GTT AGA GAA TTC CCA GGA TGT					
T E M D W P P P D S C C V R E F P G C					
1144	1153	1162	1171	1180	1189
TCC AAA CAG GCC CAC CAG GAA GAT CTC AGT GAC CTT TAT CAA GAG GGT TGT GGG					
S K Q A H Q E D L S D L Y Q E G C G					
1198	1207	1216	1225	1234	1243
AAG AAA ATG TAT TCC TTT TTG AGA GGA ACC AAA CAA CTG CAG GTG CTG AGG TTT					
K K M Y S F L R G T K Q L Q V L R F					

FIGURE 2C

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1252	1261	1270	1279	1288	1297
CTG GGA ATC TCC ATT GGG GTG ACA CAA ATC CTG GCC ATG ATT CTC ACC ATT ACT					
L G I S I G V T Q I L A M I L T I T					
1306	1315	1324	1333	1342	1351
CTG CTC TGG GCT CTG TAT TAT GAT AGA AGG GAG CCG GGG ACA GAC CAA ATG ATG					
L L W A L Y Y D R R E P G T D Q M M					
1360	1369	1378	1387	1396	1405
TCC TTG AAG AAT GAC AAC TCT CAG CAC CTG TCA TGT CCC TCA GTA GAA CTG TTG					
S L K N D N S Q H L S C P S V E L L					
1414	1423	1432	1441	1450	1459
AAA CCA AGC CTG TCA AGA ATC TTT GAA CAC ACA TCC ATG GCA AAC AGC TTT AAT					
K P S L S R I F E H T S M A N S F N					
1468	1477	1486	1495	1504	1513
ACA CAC TTT GAG ATG GAG GAG TTA TAA AAA GAA ATG TCA CAG AAG AAA ACC ACA					
T H F E M E E L *					
1522	1531	1540	1549	1558	1567
AAC TTG TTT TAC TGG ACT TGT GAA TTT TTG AGT ACA TAC TAT GTG TTT CAG AAA					
1576	1585	1594	1603	1612	1621
TAT GTA GAA ATA AAA ATG TTG CCA TAA AAT AAC ACC TAA GCA TAT ACT ATT CTA					

FIGURE 2D

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1630	1639	1648	1657	1666	1675
TGC TTT AAA ATG AGG ATG GAA AAG TTT CAT GTC ATA AGT CAC CAC CTG GAC AAT					
1684	1693	1702	1711	1720	1729
AAT TGA TGC CCT TAA AAT GCT GAA GAC AGA TGT CAT ACC CAC TGT GTA GCC TGT					
1738	1747	1756	1765	1774	1783
GTA TGA CTT TTA CTG AAC ACA GTT ATG TTT TGA GGC AGC ATG GTT TGA TTA GCA					
1792	1801	1810	1819	1828	1837
TTT CCG CAT CCA TGC AAA CGA GTC ACA TAT GGT GGG ACT GGA GCC ATA GTA AAG					
1846	1855	1864	1873	1882	1891
GTT GAT TTA CTT CTA CCA ACT AGT ATA TAA AGT ACT AAT TAA ATG CTA ACA TAG					
1900	1909	1918	1927	1936	1945
GAA GTT AGA AAA TAC TAA TAA CTT TTA TTA CTC AGC GAT CTA TTC TTC TGA TGC					
1954	1963	1972	1981	1990	1999
TAA ATA AAT TAT ATA TCA GAA AAC TTT CAA TAT TGG TGA CTA CCT AAA TGT GAT					
2008	2017	2026	2035	2044	2053
TTT TGC TGG TTA CTA AAA TAT TCT TAC CAC TTA AAA GAG CAA GCT AAC ACA TTG					
2062	2071	2080	2089	2098	2107
TCT TAA GCT GAT CAG GGA TTT TTT GTA TAT AAG TCT GTG TTA AAT CTG TAT AAT					

FIGURE 2E

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2116	2125	2134	2143	2152	2161
TCA GTC GAT TTC AGT TCT GAT AAT GTT AAG AAT AAC CAT TAT GAA AAG GAA AAT					
2170	2179	2188	2197	2206	2215
TTG TCC TGT ATA GCA TCA TTA TTT TTA GCC TTT CCT GTT AAT AAA GCT TTA CTA					
2224	2233	2242	2251	2260	2269
TTC TGT CCT GGG CTT ATA TTA CAC ATA TAA CTG TTA TTT AAA TAC TTA ACC ACT					
2278	2287	2296	2305	2314	2323
AAT TTT GAA AAT TAC CAG TGT GAT ACA TAG GAA TCA TTA TTC AGA ATG TAG TCT					
2332	2341	2350	2359	2368	2377
GGT CTT TAG GAA GTA TTA ATA AGA AAA TTT GCA CAT AAC TTA GTT GAT TCA GAA					
2386	2395	2404	2413	2422	2431
AGG ACT TGT ATG CTG TTT TTC TCC CAA ATG AAG ACT CTT TTT GAC ACT AAA CAC					
2440	2449	2458	2467	2476	2485
TTT TTA AAA AGC TTA TCT TTG CCT TCT CCA AAC AAG AAG CAA TAG TCT CCA AGT					
2494	2503	2512	2521	2530	2539
CAA TAT AAA TTC TAC AGA AAA TAG TGT TCT TTT TCT CCA GAA AAA TGC TTG TGA					
2548	2557	2566	2575	2584	2593
GAA TCA TTA AAA CAT GTG ACA ATT TAG AGA TTC TTT GTT TTA TTT CAC TGA TTA					

FIGURE 2F

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2602 2611 2620 2629 2638 2647
ATA TAC TGT GGC AAA TTA CAC AGA TTA TTA AAT TTT TTT ACA AGA GTA TAG TAT

2656 2665 2674 2683 2692 2701
ATT TAT TTG AAA TGG GAA AAG TGC ATT TTA CTG TAT TTT GTG TAT TTT GTT TAT

2710 2719 2728 2737 2746 2755
TTC TCA GAA TAT GGA AAG AAA ATT AAA ATG TGT CAA TAA ATA TTT TCT AGA GAG

2764
TAA AAA AAA AAA A 3'

FIGURE 2G

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1	MAKDNSTVRCFQGLLIFGNV	IIGCCG	IALTAE	CIF	2651154					
1	MAKDDSTVRCFQGLLIFGNV	IIGMCS	IALMAE	CIF	g443785					
36	FVSDQHSLYP	LEATDND	DIYGAAW	IGIFVG	ICLF	2651154				
36	FVSDQNSLYP	LEATNND	DIYAAAW	IGMSVG	ICLF	g443785				
71	CLSVLGI	VGIMKSSSR	KILLAYF	ILMF	IYYAF	EVAS	2651154			
71	CLSVLGI	VGIMKSNR	KILLVYF	ILMF	IYYAF	EVAS	g443785			
106	CITAA	TQRDFF	TPNLF	LKQML	ERYQ	NNSP	NNDDQ	2651154		
106	CITAA	TQRDFF	TPNLF	LKQML	ERYQ	NNSP	NNDDQ	g443785		
141	WKNNGV	TKTWDR	LM	LQDN	CCGV	NGP	SDWQ	KYTS	AF	2651154
141	WKNNGV	TKTWDR	LM	LQDN	CCGV	NGP	SDWQ	KYTS	AF	g443785
176	RTENN	DADY	PWP	RQCC	VMNN	LKEP	LNLE	ACK	LGVP	2651154
176	RTENS	DADY	PWP	RQCC	VMNS	LKEP	LNLD	ACK	LGVP	g443785
211	GFYHN	QGCY	ELIS	GPMN	RRHAW	GV	AWFG	FAI	LCWT	2651154
211	GYYH	SHG	CYELIS	GPMN	RRHAW	GV	AWFG	FAI	LCWT	g443785
246	WVLL	GTMFY	WSR	IEY						2651154
246	WVLL	GTMFY	WSR	IDY						g443785

FIGURE 3

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1 MAREDSVK - - - - - CLRCLLYALNLLFWLMSISVL 2674553
 1 MGEFNEKK ATCGTVCLKYL LFTYNCCFWL AGLAVM g2447007
 30 AVSAWMRDYLNNVLTLTAE TRVEEA VILTYFPVVH 2674553
 36 AVGIWTLALKSDYISLLASS - - - - - TYLATAY g2447007
 65 PVMIAVCCFLIIIVGMLGYCGTVKRNLLLLAWYFGS 2674553
 63 - ILV VAGVVVMVTGVLGCA TFKERRNLLRLYFIL g2447007
 100 LLVIFCVELACGVWVTYEQELMVPVQWSDMVT - LKA 2674553
 97 LLIIIFLLEIIAGILAY - - - - - VYYQQNTE LKE g2447007
 134 RMTNYGLPRYRWLTH - - - - - AWNFFQREFFKCCGVV 2674553
 125 NLKDTMVKR YHQSGHEGVSS AVDKLQQEFHCCGSN g2447007
 164 YFTDWLEMTMDW - - - - - PPDSCCVREFPG 2674553
 160 NSQDW - - - QDSEW IRSGEADSRVVPDSCCKTMVAG g2447007
 189 CSKQAHQEDLSDL YQEGCGKKMYSF LRGTKQLQVL 2674553
 192 CGKRDHASN IYKV - EGGCI TKLETFIQE - - HLRVI g2447007
 224 RFLGISIGVTQ IILAM I LTI TLLWALYYDRREP GTD 2674553
 224 GAVGIGIACVQVFSMI FTCCLYRSL - - - - - g2447007

FIGURE 4A

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259	Q	M	M	S	L	K	N	D	N	S	Q	H	L	S	C	P	S	V	E	L	L	K	P	S	L	S	R	I	F	E	H	T	S	M	A	2674553
249	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	g2447007	
294	N	S	F	N	T	H	F	E	M	E	E	L																							2674553	
249	-	-	-	-	-	-	-	-	-	-	-	-	K	L	E	H	Y																		g2447007	

FIGURE 4B

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1 G C C C - T A C C G T G T - - G C G C A G A A A G A G G A G G C C T 2651154dna
1 G C G T G C A G A G A G C C G A C A C A G T A C C A G G A G G A G G A 2651154dna
33 T G C C T T C A G C T T G T G G G A A A T C C C G A A G A T G G C C A 2651154dna
36 G G A G - - A G G C T T G G G G A A A T C C T G A A G A T G G C C A 2651154dna
68 A A G A C A A C T C A A C T G T T C G T T G C C T T C C A G G G C C T G 2651154dna
69 A A G A C G A C T C A C T G T T C G T T G C C T T C C A G G G C C T G 2651154dna
103 C T G A T T T T G G A A A T G T G A T T A T T G G T T G T T G C C G 2651154dna
104 C T G A T T T T G G A A A T G T G A T T A T C G G T A T G T G C A G 2651154dna
138 C A T T G C C C C T G A C T G C C G G A G T G C A T C T T C T T T G T A T 2651154dna
139 C A T C G C C C T G A T G G C A G A G T G C A T C T T C T T T G T A T 2651154dna
173 C T G A C C C A A C A C A G C C C T C T A C C C A C T G C T T G A A G C C 2651154dna
174 C A G A C C C A A A C A G C C C T C T A C C C A C T G C T T G A A G C C 2651154dna
208 A C C G A C A A C G A T G A C A T C T A T G G G G C C T G C C T G G A T 2651154dna
209 A C C A A C A A T G A C G A C A T C T A T G C G G C A G C C T G G A T 2651154dna
243 C G G C A T A T T T G T G G G C A T C T G C C C T C T T C T G C C C T G T 2651154dna
244 T G G C A T G T C T G T T G G C A T C T G C C C T C T T C T G C C C T C T 2651154dna

FIGURE 5A

278	C	T	G	T	T	C	T	A	G	G	C	A	T	T	G	T	A	G	G	C	A	T	C	A	T	G	A	A	G	T	C	C	A	G	C
279	C	T	G	T	C	C	T	G	G	C	A	T	C	G	T	A	G	G	C	A	T	C	A	T	G	A	A	G	T	C	C	A	A	C	
	2651154dna g443784																																		
313	A	G	G	A	A	A	T	T	C	T	T	C	T	G	G	C	G	T	A	T	T	T	C	A	T	T	C	T	G	A	T	G	T	T	
314	A	G	G	A	A	A	T	T	C	T	T	C	T	G	G	T	G	T	A	T	T	T	C	A	T	C	C	T	G	A	T	G	T	T	
	2651154dna g443784																																		
348	T	A	T	A	G	T	A	T	A	T	G	C	C	T	T	T	G	A	A	G	T	G	G	C	A	T	C	T	T	G	T	A	T	C	A
349	T	A	T	G	T	A	T	A	T	G	C	T	T	T	T	G	A	A	G	T	G	G	C	A	T	C	T	T	G	T	A	T	C	A	
	2651154dna g443784																																		
383	C	A	G	C	A	G	C	A	A	C	A	A	C	G	A	G	A	C	T	T	T	T	C	A	C	A	C	C	C	A	A	C	A	C	
384	C	A	G	C	A	G	C	A	A	C	A	A	C	G	A	G	A	C	T	T	T	T	C	A	C	A	C	C	C	A	A	C	A	C	
	2651154dna g443784																																		
418	C	T	C	T	T	C	C	T	G	A	A	G	C	A	G	A	T	G	C	T	A	G	A	G	G	T	A	C	C	A	A	A	A	A	
419	C	T	C	T	T	C	C	T	G	A	A	G	C	A	G	A	T	G	C	T	G	A	G	A	T	A	C	C	C	A	A	A	A	A	
	2651154dna g443784																																		
453	C	A	A	C	A	G	C	C	C	T	C	C	A	A	A	C	A	A	T	G	A	T	G	A	C	C	A	G	T	G	G	A	A	A	
454	C	A	A	C	A	G	T	C	C	T	C	C	A	A	A	C	A	A	T	G	A	T	G	A	C	C	A	A	T	G	G	A	A	A	
	2651154dna g443784																																		
488	A	C	A	A	T	G	G	A	G	T	C	A	C	C	A	A	A	A	C	C	T	G	G	G	A	C	A	G	G	C	T	C	A	T	G
489	A	C	A	A	T	G	G	A	G	T	C	A	C	C	A	A	G	A	C	C	T	G	G	G	A	C	A	G	A	C	T	T	A	T	G
	2651154dna g443784																																		
523	C	T	C	C	A	G	G	A	C	A	A	T	T	G	C	T	G	T	G	G	C	G	T	A	A	A	T	G	G	T	C	C	A	T	C
524	C	T	C	C	A	G	G	A	C	A	A	T	T	G	C	T	G	T	G	G	T	G	T	A	A	A	T	G	G	C	C	C	G	T	C
	2651154dna g443784																																		

FIGURE 5B

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558	AGACCTGGCAAAATAACACATCTGCCCTTCCCGGACTG																																2651154dna
559	AGACTGGCAGAAATACACCTCTGCCCTTCCCGGACTG																																g443784
593	AGAAATAATGATGCTGACTATCCCTGGCCCTCGTCAA																																2651154dna
594	AGAAACAGCGATGCTGACTACCCCTGGCCCTCGTCAA																																g443784
628	TGCTGCTGTTATGAACAATCTTAAAGAACCTCTCAA																																2651154dna
629	TGCTGCTGTTATGAACAGCCCTTAAAGAACCTCTCAA																																g443784
663	CCTGGAGGCTTGTAACAATAAGCGTGCCCTGGTTT																																2651154dna
664	CCTGGACGCGCTGCAAAATTAGGAGTGCCCTGGATACT																																g443784
698	ATCACAATCAGGGCTGCTATGAACTGATCTCTGGT																																2651154dna
699	ACCAATAAGTCAATGGCTGCTATGAGCTGATCTCTGGA																																g443784
733	CCAAATGAACCGACACCGCCCTGGGGGGTGGTT																																2651154dna
734	CCAAATGAACCGACACTGGCCCTGGGGAGTGGTT																																g443784
768	TGGATTGCCCCATTCTCTGCTGGACCTTTTGGGGTTC																																2651154dna
769	TGGATTGCCCCATTCTCTGTGGACCTTCTGGGGTTC																																g443784
803	TCCCTGGGTACCAATGTTCTACTGGAGCAGAAATTGA																																2651154dna
804	TCCCTGGGTACCAATGTTCTACTGGAGCAGAAATTGAC																																g443784

FIGURE 5C

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838	T	A	T	A	A	G	C	A	T	A	A	G	T	G	T	T	G	C	C	A	C	C	A	T	A	C	C	T	C	C	T	T	C		
839	T	A	T	A	A	G	A	A	T	G	A	A	G	T	G	T	A	T	G	C	A	C	C	A	T	A	C	C	A	C	T	C	C		
	2651154dna g443784																																		
873	C	C	C	G	A	G	T	G	A	C	T	C	T	G	G	A	T	T	T	G	G	T	G	C	T	G	G	A	A	C	C	A	G	C	T
874	C	A	C	-	A	G	T	G	A	C	T	T	T	G	G	A	T	T	T	G	G	T	G	C	T	G	G	A	A	T	-	G	C	T	
	2651154dna g443784																																		
908	C	T	C	T	C	C	T	A	A	T	A	T	T	C	C	A	C	G	T	T	T	G	T	G	C	C	C	A	C	-	-	-	A		
907	G	T	C	T	C	C	T	A	A	T	G	T	T	C	T	A	C	C	T	T	T	G	T	G	C	T	G	C	C	G	G	A	A		
	2651154dna g443784																																		
939	C	T	A	A	C	G	T	G	T	C	T	T	A	C	A	T	T	G	C	C	A	A	G	T	C	A	G	A	T	G	G				
942	C	T	T	A	C	G	C	A	T	T	C	T	T	C	T	A	C	A	T	T	G	C	C	A	A	G	T	A	C	G	T	T	G	G	
	2651154dna g443784																																		
974	T	A	C	G	G	A	C	T	T	C	C	T	T	A	G	G	A	T	C	T	C	A	G	G	C	T	T	C	T	G	C	A	G	T	
977	T	A	T	G	G	G	G	T	T	C	C	T	T	A	A	G	C	T	C	T	C	A	G	A	C	T	-	C	T	G	A	A	T		
	2651154dna g443784																																		
1009	T	C	T	C	A	T	G	A	C	T	C	C	T	A	C	T	T	T	C	A	T	C	C	T	A	G	T	C	T	A	G	C	A	T	
1011	T	T	T	C	A	G	C	A	C	A	T	G	T	G	-	T	T	T	T	C	A	C	C	C	T	G	A	T	C	T	A	G	G	A	T
	2651154dna g443784																																		
1044	T	C	T	G	C	A	A	C	A	T	T	A	T	A	T	A	G	A	C	T	G	T	T	G	A	A	-	-	G	G	A	G	A		
1045	T	C	T	G	C	A	A	C	A	T	T	G	T	T	A	T	A	G	A	C	T	G	T	A	G	G	A	A	A	G	G	A	G	G	
	2651154dna g443784																																		
1077	A	T	T	T	G	A	A	-	A	A	T	G	C	A	T	A	A	T	A	A	C	T	A	C	T	T	C	C	A	T	C	C	C	T	
1080	A	T	T	A	G	G	A	T	A	G	T	A	G	A	T	A	A	T	A	A	C	T	A	T	T	C	C	A	T	C	T	T	T		
	2651154dna g443784																																		

FIGURE 5D

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1111	G C T T A T T T A A T T T G G G A A A A T A A A T A C A T T C G A	2651154dna
1115	G T T A T T T A A T G T G G G G G C A T A A A G A C A T T C C T	g443784
1146	A G G A A - - - - - - - - - - A A A C A A A A - - - - -	2651154dna
1150	A G G A A C C T G T G T T A T A C T G C A A G C C A A G T C T G T A T	g443784
1159	- -	2651154dna
1185	T G G G A C A G C A A A T C T G C C T G T A T T C T C A C T G C T T	g443784
1159	- - - A A A A G - - - - - G G C G G C C C C C G A T T - - - - - A T	2651154dna
1220	T C T A A A A G T A C C C T G A T G G C A C C C C A C T C C A G T A C	g443784
1180	T -	2651154dna
1255	T C T T G C C T G G A A A A T C C C A T G G A C G G A G C C T G	g443784
1190	- -	2651154dna
1290	A T G G G C T G C A G T C C A T G G G T C G C A A A G A G T C G G A C	g443784
1195	C C G A -	2651154dna
1325	C C G A C T G G G C G A C T T C A C T T T C A C T T T C A C T T T C	g443784
1209	A T G T A -	2651154dna
1360	A T G C A T T G G A G A A G G A A A T G G C A A C C C A C T C C A G T	g443784

FIGURE 5E

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1225 - - - - - C C G G G G - - - - - 2651154dna
1395 G T C T T G C C T G G A G A A T C C C A G G G A T G G A G G A G C C g443784

1231 - - - - - T G G A G G G C T G C C G T C T A T G G G G T C A C A G A G T C G 2651154dna
1430 T G G A G G G C T G C C G T C T A T G G G G T C A C A G A G T C G g443784

1231 - - - - - T A A A - - - - - 2651154dna
1465 G A C A C G A C T G A A G C G A C T T A G C A G C A G C A G C A g443784

1235 - - - - - A T T G T A - - - - - A T C C C - - - - - 2651154dna
1500 A A G G C T T C A T T G T A T C A G T A T T G T C C C A G T G A G A g443784

1246 - 2651154dna
1535 G A A C T A A G G A G A A G A C T G C T G A A A C A T C T T T G A A g443784

1246 - 2651154dna
1570 T T T G T T C T A T G G T G G C T C C C A C C T A C A G A C T C A A G g443784

1251 - A A T T C C C C - A A A A C - - - - - - - - - - - - - 2651154dna
1605 T G A T T C T C T T A A A G C T A G C T T G G G A A C C C T T A T T g443784

1264 - - - - - A T A G G G C C C G - - - - - - - - - - - - - 2651154dna
1640 A T C C A A G A C A A G G C C T G A T C T T G A A C A A C A G T G G g443784

FIGURE 5F

FIGURE 5G

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2651154dna
g443784

1331
1955

FIGURE 5H